

### ***Amendments to the Claims***

The listing of claims will replace all prior versions, and listings of claims in the application.

1-20. *(Canceled)*

21. *(Currently amended)* A method ~~of~~ for enabling a user to organize and analyze information, comprising:

searching ~~an input~~ a first group of documents according to one or more search functions to output a second group of documents, wherein the second group of documents is a subset of the first group of documents;

wherein the search functions comprise at least one of the following:

morphological functions;

lexical functions;

syntactic functions;

semantic functions;

discourse functions;

pragmatic functions;

full text functions;

boolean functions; and

clustering functions;

analyzing ~~an input~~ a third group of documents according to one or more analytical functions to output a fourth group of documents, wherein the fourth group of documents is a subset of the third group of documents;

wherein the analytical functions comprise at least one of mapping functions, citation functions, plot lineage functions, and reporting functions; and

selectively iterating at least one of the searching step and ~~at least one of the analyzing step~~, wherein each iteration of the searching step or the analyzing step is performed using as ~~the input one of~~ the second group of documents, the fourth group of documents, or ~~the~~ output of a previous iteration;

wherein said selectively iterating step includes:

performing an additional iteration of the searching step using ~~the fourth group of documents as input~~ as input the second group of documents, to output a fifth group of documents, wherein the fifth group of documents is a subset of the second group of documents; and

performing an additional iteration of the analyzing step using as input the fourth group of documents, to output a sixth group of documents, wherein the sixth group of documents is a subset of the fourth group of documents.

22. *(Previously presented)* The method of claim 21, further comprising:  
making at least one of the second group or the fourth group a permanent group.

23. *(Previously presented)* The method of claim 21, wherein the searching comprises:

performing a cluster analysis of the first group of documents to create a hierarchical arrangement of groups containing documents from the first group, wherein the second group is one of the hierarchical arrangement of groups.

24. *(Previously presented)* The method of claim 21, further comprising:

performing a relevancy visualization analysis of one of the first group and the third group to identify how documents contained therein are inter-related with respect to key terms.

25. *(Previously presented)* The method of claim 24, wherein relevancy visualization analysis operates according to a rule book.

26. *(Previously presented)* The method of claim 25, wherein the rule book comprises patent specific rules.

27. *(Previously presented)* The method of claim 21, further comprising:

generating an object corresponding to a search process component or an analyze process component of a work flow represented by the searching, analyzing, and selective iterating.

28. *(Previously presented)* The method of claim 27, wherein an object is generated using object definitions.

29. *(Previously presented)* The method of claim 28, wherein the object definitions comprise:

- a boolean operation object definition;
- a corporate family operating object definition;
- an export object definition;
- a folder object definition;
- an import object definition;
- a list exploder operation object definition;
- a list object definition;
- a query object definition; or
- a patent family dedupe object definition.

30. *(Previously presented)* The method of claim 27, further comprising:  
saving the object.

31. *(Previously presented)* The method of claim 27, further comprising:  
re-executing the work flow by traversing the object.

32. *(Previously presented)* The method of claim 27, further comprising:  
creating a new work flow by modifying the object.

33. *(Previously presented)* The method of claim 21, further comprising:  
annotating at least one of the first group, third group, or any portion of any document contained in the first group or the third group.

34. *(Previously presented)* The method of claim 21, wherein the first group of documents is from at least one of a database, an external source, or the Internet.

35. *(Currently amended)* A method of organizing and analyzing information, comprising:

initiating a search of ~~an input~~ a first group of documents according to one or more selected search functions to output a second group of documents, wherein the second group of documents is a subset of the first group of documents;

initiating an analysis of ~~an input~~ a third group of documents according to one or more analytical functions to output a fourth group of documents, wherein the fourth group of documents is a subset of the third group of documents;

wherein the one or more analytical functions are selected from a group comprising mapping functions, citation functions, plot lineage functions, and reporting functions; and

selectively iterating at least one of the searching step and ~~at least one of the~~ analyzing step, wherein each iteration of the searching step or the analyzing step is performed using as ~~the input one of~~ the second group of documents, the fourth group of documents, or ~~the~~ output of a previous iteration;

wherein said selectively iterating step includes:

performing an additional iteration of the searching step using ~~the fourth group of documents as input~~ as input the second group of documents, to output a fifth group of documents, wherein the fifth group of documents is a subset of the second group of documents; and

performing an additional iteration of the analyzing step using as input the fourth group of documents, to output a sixth group of documents, wherein the sixth group of documents is a subset of the fourth group of documents.

36. *(Previously presented)* The method of claim 35, further comprising:  
making at least one of the second group or the fourth group a permanent group.

37. *(Previously presented)* The method of claim 35, wherein the initiating a search comprises:

initiating a performance of a cluster analysis of the first group of documents to create a hierarchical arrangement of groups containing documents from the first group, wherein the second group is one of the hierarchical arrangement of groups.

38. *(Previously presented)* The method of claim 35, further comprising:

initiating a performance of a relevancy visualization analysis of one of the first group and the third group to identify how documents contained therein are inter-related with respect to key terms.

39.     *(Previously presented)* The method of claim 38, wherein relevancy visualization analysis operates according to a rule book.
40.     *(Previously presented)* The method of claim 39, wherein the rule book comprises patent specific rules.
41.     *(Previously presented)* The method of claim 35, further comprising:  
          initiating a generation of an object corresponding to a search process component or an analysis process component of a work flow represented by the initiating of a search, the initiating of an analysis, and the selective initiating of at least one iteration.
42.     *(Previously presented)* The method of claim 41, wherein an object is generated using object definitions.
43.     *(Previously presented)* The method of claim 42, wherein the object definitions comprise:  
          a boolean operation object definition;  
          a corporate family operating object definition;  
          an export object definition;  
          a folder object definition;  
          an import object definition;  
          a list exploder operation object definition;  
          a list object definition;

a query object definition; or  
a patent family dedupe object definition.

44.    *(Previously presented)* The method of claim 41, further comprising:  
initiating a save of the object.
45.    *(Previously presented)* The method of claim 41, further comprising:  
initiating a re-execution of the work flow, wherein re-execution is accomplished  
by traversing the object.
46.    *(Previously presented)* The method of claim 41, further comprising:  
creating a new work flow by modifying the object.
47.    *(Previously presented)* The method of claim 35, further comprising:  
annotating at least one of the first group, third group, or any portion of any  
document contained in the first group or the third group.
48.    *(Previously presented)* The method of claim 35, wherein the first group of  
documents is from at least one of a database, an external source, or the Internet.
49.    *(Currently amended)* A system, comprising:  
a processor; and  
a memory,



wherein the processor is capable of searching ~~an input~~ a first group of documents according to one or more search functions to output a second group of documents, wherein the second group of documents is a subset of the first group of documents;

wherein the one or more search functions are selected from a group comprising morphological functions, lexical functions, syntactic functions, semantic functions, discourse functions, pragmatic functions, full text functions, boolean functions, and clustering functions;

wherein the processor is capable of analyzing ~~an input~~ a third group of documents according to one or more selected analytical functions to output a fourth group of documents, wherein the fourth group of documents is a subset of the third group of documents;

wherein the processor is capable of selective iteration of at least one of the searching step and ~~at least one of~~ the analyzing step, wherein each iteration of the searching step or the analyzing step is performed using as the input ~~one of~~ the second group of documents, the fourth group of documents, or the output of a previous iteration;

wherein the processor is capable of performing an additional iteration of the searching step using ~~the fourth group of documents as input~~ as input the second group of documents, to output a fifth group of documents, wherein the fifth group of documents is a subset of the second group of documents; and

wherein the processor is capable of performing an additional iteration of the analyzing step using as input the fourth group of documents, to output a sixth group of documents, wherein the sixth group of documents is a subset of the fourth group of documents.

50.     *(Previously presented)* The system of claim 49, wherein the processor is capable of making at least one of the second group or the fourth group a permanent group.

51.     *(Previously presented)* The system of claim 49, wherein the processor is capable of performing a cluster analysis of the first group of documents to create a hierarchical arrangement of groups containing documents from the first group, wherein the second group is one of the hierarchical arrangement of groups.

52.     *(Previously presented)* The system of claim 49, wherein the processor is capable of performing a relevancy visualization analysis of one of the first group and the third group to identify how documents contained therein are inter-related with respect to key terms.

53.     *(Previously presented)* The system of claim 52, wherein relevancy visualization analysis operates according to a rule book.

54.     *(Previously presented)* The system of claim 53, wherein the rule book comprises patent specific rules.

55.     *(Previously presented)* The system of claim 49, wherein the processor is capable of generating an object corresponding to a search process component or an analyze

process component of a work flow represented by the searching, the analyzing, and the selective iteration.

56. *(Previously presented)* The system of claim 55, wherein an object is generated using object definitions.

57. *(Previously presented)* The system of claim 56, wherein the object definitions comprise:

- a boolean operation object definition;
- a corporate family operating object definition;
- an export object definition;
- a folder object definition;
- an import object definition;
- a list exploder operation object definition;
- a list object definition;
- a query object definition; or
- a patent family dedupe object definition.

58. *(Previously presented)* The system of claim 55, wherein the processor is capable of saving the object.

59. *(Previously presented)* The system of claim 55, wherein the processor is capable of re-executing the work flow by traversing the object.

60. *(Previously presented)* The system of claim 55, wherein the processor is capable of creating a new work flow by modifying the object.

61. *(Previously presented)* The system of claim 49, wherein the processor is capable of annotating one of the first group, third group, or any portion of any document contained in the first group or the third group.

62. *(Previously presented)* The system of claim 49, wherein the first group of documents is from at least one of a database, an external source, or the Internet.

63. *(Currently amended)* A computer program product having control logic stored therein, the control logic, when executed, enabling a computer to provide a method for organizing and analyzing information, said computer program product comprising:

control logic capable of enabling the computer to search ~~an input a~~ first group of documents according to one or more search functions to output a second group of documents, wherein the second group of documents is a subset of the first group of documents;

wherein the one or more search functions are selected from a group comprising morphological functions, lexical functions, syntactic functions, semantic functions, discourse functions, pragmatic functions, full text functions, boolean functions, and clustering functions;

control logic capable of enabling the computer to analyze ~~an input a~~ third group of documents according to one or more analytical functions to output a fourth group of documents, wherein the fourth group of documents is a subset of the third group of documents;

wherein the one or more analytical functions are selected from a group comprising mapping functions, citation functions, plot lineage functions, and reporting functions; and

control logic capable of enabling the computer to selectively iterate at least one of the searching step and ~~at least one of~~ the analyzing step, wherein each iteration of the searching step or the analyzing step is performed using as the input ~~one of~~ the second group of documents, the fourth group of documents, or the output of a previous iteration;

wherein said control logic capable of enabling the computer to selectively iterate includes:

control logic capable of enabling the computer to perform an additional iteration of the searching step using ~~the fourth group of documents as input as~~ input the second group of documents, to output a fifth group of documents, wherein the fifth group of documents is a subset of the second group of documents; and

control logic capable of enabling the computer to perform an additional iteration of the analyzing step using as input the fourth group of documents, to output a sixth group of documents, wherein the sixth group of documents is a subset of the fourth group of documents.

64. *(Previously presented)* The computer program product of claim 63, further comprising:

control logic capable of enabling the computer to make at least one of the second group or the fourth group a permanent group.

65. *(Previously presented)* The computer program product of claim 63, wherein the control logic capable of enabling the computer to search comprises:

control logic capable of enabling the computer to perform a cluster analysis of the first group of documents to create a hierarchical arrangement of groups containing documents from the first group, wherein the second group is one of the hierarchical arrangement of groups.

66. *(Previously presented)* The computer program product of claim 63, further comprising:

control logic capable of enabling the computer to perform a relevancy visualization analysis of one of the first group and the third group to identify how documents contained therein are inter-related with respect to key terms.

67. *(Previously presented)* The computer program product of claim 66, wherein relevancy visualization analysis operates according to a rule book.

68. *(Previously presented)* The computer program product of claim 67, wherein the rule book comprises patent specific rules.

69. *(Previously presented)* The computer program product of claim 63, further comprising:

control logic capable of enabling the computer to generate at least one object corresponding to a search process component or analyze process component of a work flow represented by the search, the analyze, and the selective iteration.

70. *(Previously presented)* The computer program product of claim 69, wherein an object is generated using object definitions.

71. *(Previously presented)* The computer program product of claim 70, wherein the object definitions comprise:

- a boolean operation object definition;
- a corporate family operating object definition;
- an export object definition;
- a folder object definition;
- an import object definition;
- a list exploder operation object definition;
- a list object definition;
- a query object definition; or
- a patent family dedupe object definition.

72. *(Previously presented)* The computer program product of claim 69, further comprising:

control logic capable of enabling the computer to save the object.

73. *(Previously presented)* The computer program product of claim 69, further comprising:

control logic capable of enabling the computer to re-execute the work flow by traversing the object.

74. *(Previously presented)* The computer program product of claim 69, further comprising:

control logic capable of enabling the computer to create a new work flow by modifying the object.

75. *(Previously presented)* The computer program product of claim 63, further comprising:

control logic capable of enabling the computer to annotate one of the first group, third group, or any portion of any document contained in the first group or the third group.

76. *(Previously presented)* The computer program product of claim 63, wherein the first group of documents is from at least one of a database, an external source, or the Internet.



77. *(Currently amended)* A computer implemented device that executes control logic tangibly implemented therein to organize and analyze information, comprising:

a first control logic capable of searching ~~an input~~ a first group of documents according to one or more search functions to output a second group of documents, wherein the second group of documents is a subset of the first group of documents;

wherein the one or more search functions are selected from a group comprising morphological functions, lexical functions, syntactic functions, semantic functions, discourse functions, pragmatic functions, full text functions, boolean functions, and clustering functions;

a second control logic capable of analyzing ~~an input~~ a third group of documents according to one or more analytical functions to output a fourth group of documents, wherein the fourth group of documents is a subset of the third group of documents;

wherein the one or more analytical functions are selected from a group comprising mapping functions, citation functions, plot lineage functions, and reporting functions; and

a third control logic capable of selective iteration of at least one of the searching step and ~~at least one of the analyzing step~~, wherein each iteration of the searching step or the analyzing step is performed using as the input ~~one of~~ the second group of documents, the fourth group of documents, or the output of a previous iteration;

wherein the third control logic is capable of enabling the first control logic to:

perform an additional iteration of the searching step using ~~the fourth group of documents as input~~ as input the second group of documents, to output a

fifth group of documents, wherein the fifth group of documents is a subset of the second group of documents; and

perform an additional iteration of the analyzing step using as input the fourth group of documents, to output a sixth group of documents, wherein the sixth group of documents is a subset of the fourth group of documents.

78. *(Previously presented)* The device of claim 77, further comprising:

a fourth control logic capable of making at least one of the second group or the fourth group a permanent group.

79. *(Previously presented)* The device of claim 77, wherein the first control logic comprises:

a fourth control logic capable of performing a cluster analysis of the first group of documents to create a hierarchical arrangement of groups containing documents from the first group, wherein the second group is one of the hierarchical arrangement of groups.

80. *(Previously presented)* The device of claim 77, further comprising:

a fourth control logic capable of performing a relevancy visualization analysis of one of the first group and the third group to identify how documents contained therein are inter-related with respect to key terms.

81. *(Previously presented)* The device of claim 80, wherein relevancy visualization analysis operates according to a rule book.

82.     *(Previously presented)* The device of claim 81, wherein the rule book comprises patent specific rules.

83.     *(Previously presented)* The device of claim 77, further comprising:

        a fourth control logic capable of generating an object corresponding to a search process component or an analyze process component of a work flow represented by the search, the analyze, and the selective iteration.

84.     *(Previously presented)* The device of claim 83, wherein an object is generated using object definitions.

85.     *(Previously presented)* The device of claim 84, wherein the object definitions comprise:

        a boolean operation object definition;  
        a corporate family operating object definition;  
        an export object definition;  
        a folder object definition;  
        an import object definition;  
        a list exploder operation object definition;  
        a list object definition;  
        a query object definition; or  
        a patent family dedupe object definition.

86.    *(Previously presented)* The device of claim 83, further comprising:  
a fifth control logic capable of saving the object.
87.    *(Previously presented)* The device of claim 83, further comprising:  
a fifth control logic capable of re-executing the work flow by traversing the  
object.
88.    *(Previously presented)* The device of claim 83, further comprising:  
a fifth control logic capable of creating a new work flow by modifying the object.
89.    *(Previously presented)* The device of claim 77, further comprising:  
a fourth control logic capable of annotating one of the first group, third group, or  
any portion of any document contained in the first group or the third group.
90.    *(Previously presented)* The device of claim 77, wherein the first group of  
documents is from at least one of a database, an external source, or the Internet.
91.    *(New)* A system for organizing and analyzing information, comprising:  
means for searching a first group of documents according to one or more search  
functions to output a second group of documents, wherein the second group of  
documents is a subset of the first group of documents;  
wherein the search functions comprise at least one of the following:  
morphological functions; lexical functions;

syntactic functions;  
semantic functions;  
discourse functions;  
pragmatic functions;  
full text functions;  
boolean functions; and  
clustering functions;

means for analyzing a third group of documents according to one or more selected analytical functions to output a fourth group of documents, wherein the fourth group of documents is a subset of the third group of documents;

means for performing a selective iteration of at least one of the searching and the analyzing, wherein each iteration of the searching or the analyzing is performed using as input the second group of documents, the fourth group of documents, or output of a previous iteration;

means for performing an additional iteration of the searching using as input the second group of documents, to output a fifth group of documents, wherein the fifth group of documents is a subset of the second group of documents; and

means for performing an additional iteration of the analyzing using as input the fourth group of documents, to output a sixth group of documents, wherein the sixth group of documents is a subset of the fourth group of documents.

92. (New) A method for enabling a user to organize and analyze information, comprising:

initiating a computerized search of a first group of documents according to one or more user-selected search functions to output a second group of documents, wherein the second group of documents is a subset of the first group of documents;

initiating computerized analysis of a third group of documents according to one or more analytical functions to output a fourth group of documents, wherein the fourth group of documents is a subset of the third group of documents; and

initiating a selective iteration at least one of the searching step and the analyzing step, wherein each iteration of the searching step or the analyzing step is performed using as input the second group of documents, the fourth group of documents, or output of a previous iteration;

wherein said selective iteration includes:

initiating an additional iteration of the searching step using as input the second group of documents, to output a fifth group of documents, wherein the fifth group of documents is a subset of the second group of documents; and

initiating an additional iteration of the analyzing step using as input the fourth group of documents, to output a sixth group of documents, wherein the sixth group of documents is a subset of the fourth group of documents.